

TUTORIAL



WHO ELSE WANTS TO LEARN DATA STRUCTURES

And algorithms? – A full Guide



@hvd coder

Day $-\infty$ to 0:

Stick to a programming language like C or C++. Make sure that you are comfortable with pointers/objects.



@hvd coder

Day 1:

Understand the concept of Algorithmic complexity. Skip the theory for now, but for every piece of code you write, you should be able to derive both time and space complexity.



Day 2 – 10:

Let's start with some simple data structures,

1. Arrays
2. Linked
3. Lists
4. Strings
5. Stacks
6. Queues

understand their basic operations and code them all.



Day 11 – 25:

Let's now learn some simple algorithms,

1. Sorting – Insertion sort, Merge sort, Quick sort, Heap sort, Bucket sort, Counting sort, Radix sort, External sorting
2. Search – Linear search, Binary Search (along with its variants).
3. Prime Numbers – Sieve of Eratosthenes, Primality test
4. Strings – String searching, LCS, Palindrome detection



Day 26 – 50:

Once you are comfortable with everything above, start doing problems from,

1. Cracking the Coding Interview
2. Elements of Programming Interviews
3. Programming Interviews Exposed:
Secrets to Landing Your Next Job
4. GeeksforGeeks
5. HackerRank
6. InterviewBit

*Stick to chapters of arrays,
linked lists, strings, stacks,
queues and complexity.*



Day 51 – 60:

Let's learn some non-linear data structures,

1. Tree
2. Hash table
3. Graph



Day 61– 90:

Refer to the previous resources and start doing problems from trees, hash tables, heaps and graphs.



@hvd coder

Day 101 – ∞ :

You are now better than most of the CS undergrads. Keep revising the above topics and start competitive programming!



@hvd coder

"I NEVER UNDERSTOOD RECURSION"



Check out more 🙄

DATA STRUCTURES IN REAL LIFE



WHY DATA STRUCTURES ARE SO IMPORTANT TO LEARN ?
And algorithms



Short + long answer

HTML TRICKS NOBODY TALKS ABOUT



HOW TO LEARN ANYTHING FASTER



JUST A COMPUTER TRICK



CODING TOOLS I WISH I HAD KNOWN EARLIER



@hvd coder



HARSHVARDHAN DUBEY
FULL STACK JAVA DEVELOPER

If you have any
queries feel free to
contact me

TALK ABOUT
CODING , FULL STACK
DSA, PLACEMENTS

Harshvardhan Dubey

Code & Content | JAVA | Angular | Hibernate | Springboot | AWS |
JDC | MySql | JS | BOOTSTRAP | GIT | GITHUB | HTML | CSS

Talks about #dsa, #coding, #fullstack, #codingtips, and #placements

JOIN THE FRIENDZONE